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- 1a. The process by which molecules move from an area of higher concentration to an area of lower concentration.
- 1b. The sugar cube molecules dissolve and move from the area near the cube where the sugar concentration is high, to the rest of the tea, where the concentration is lower.
- 2a. Osmosis is the diffusion of water molecules through a selectively permeable membrane.
- 2b. Water molecules move from the side of the cell membrane with a higher concentration of water to the side with a lower concentration of water.
- 2c. Water molecules move by osmosis from B to A.
- 3a. Active transport requires cellular energy; passive transport does not.
- 3b. Transport proteins are proteins in the cell membrane that carry cells from outside the cell to inside.
- 3c. Because they are moving molecules from an area of lower concentration to an area of higher concentration.